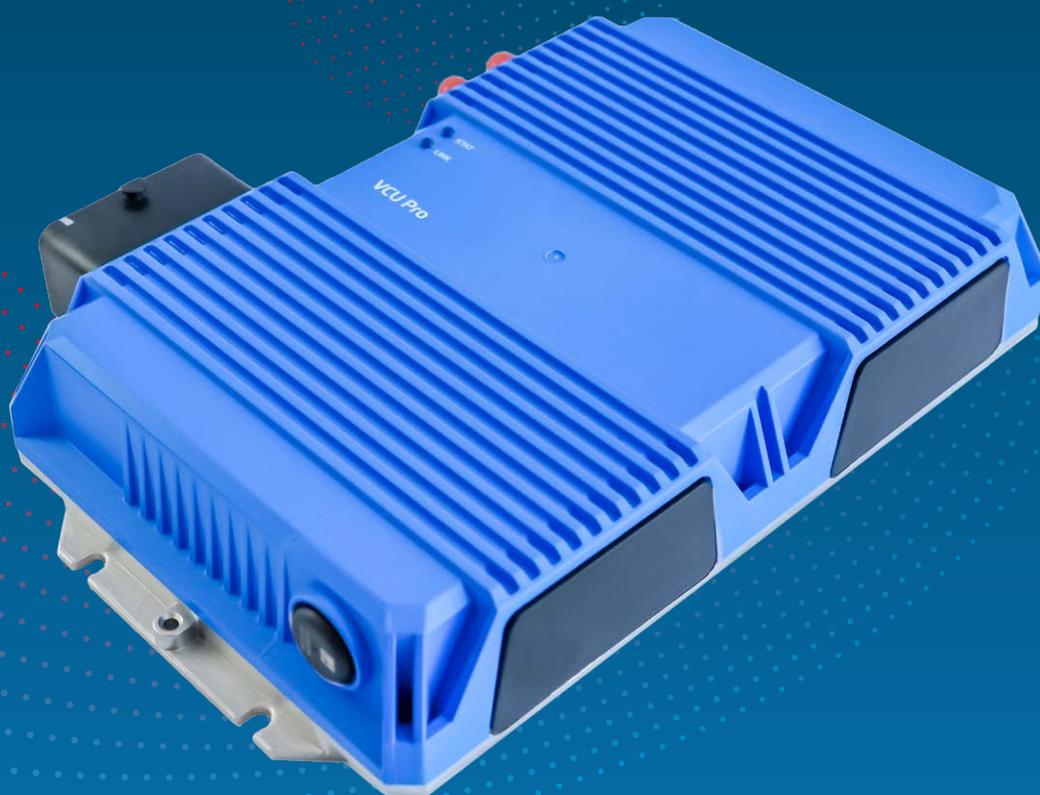


VCU Pro Onboard Unit Datasheet

Vehicle Connectivity Gateway



REV 1.05

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VCU Pro Onboard Unit

VCU Pro is the advanced on-board unit from the Vehicle Connectivity Unit series. With 4 CAN interfaces (2 standard CAN and 2 CAN FD), 4 analog inputs and 4 digital outputs VCU Pro is a professional and robust vehicle gateway. Two independent processors ensure both a safe and secure connection to the vehicle network and also provide a universal communication capability.



CPU	ARM® 1 GHz	Automotive Connector	MOLEX (48 pins)
RAM	1 GB	Antenna Connectors	SMA Female
Memory	8 GB Flash		
Sensors	3-axis Accelerometer 3-axis Gyro	Mounting Option	Screws
GNSS	GPS, Glonass, BeiDou, Galileo		

VCU Pro Onboard Unit

Communication and Interfaces 2× CAN 2.0B 2× CAN FD 4× Analog IN 4× Digital OUT 1× Ethernet 100 BaseT 2× Ethernet BrdrR WiFi 802.11 a/b/g/n Bluetooth 4.2 1× RS232 1× LIN 1× K-Line 1× embedded SIM + 1× plastic SIM (accessible) Cellular – LTE Cat4 (EMEA + Asia/Pasific version)	Processors and modules ARM Cortex A8 (1GHz) Infineon Aurix Microcontroller (200MHz, 472 KB RAM) HSM (Hardware Security Module) for cloud communication secure key storage Second HSM for diagnostic key sessions GTM (Generic Timer Module)	Mechanical Material: Aluminum / Plastic Waterproof housing Operating temperature from -40°C to +75°C Protection level: IP5K5
GNSS uBlox NEO-M8L with Dead Reckoning	Sensor Network 3-axis Accelerometer 3-axis Gyro	Memory 1 GB RAM 8 GB eMMC Flash
System Linux Operating System Fail-safe OTA update	Power Supply Nominal Voltage: 9–36 V DC	Approvals E-Mark ISO16750 Fire safety
		Certification CE FCC (components)

